Patent application

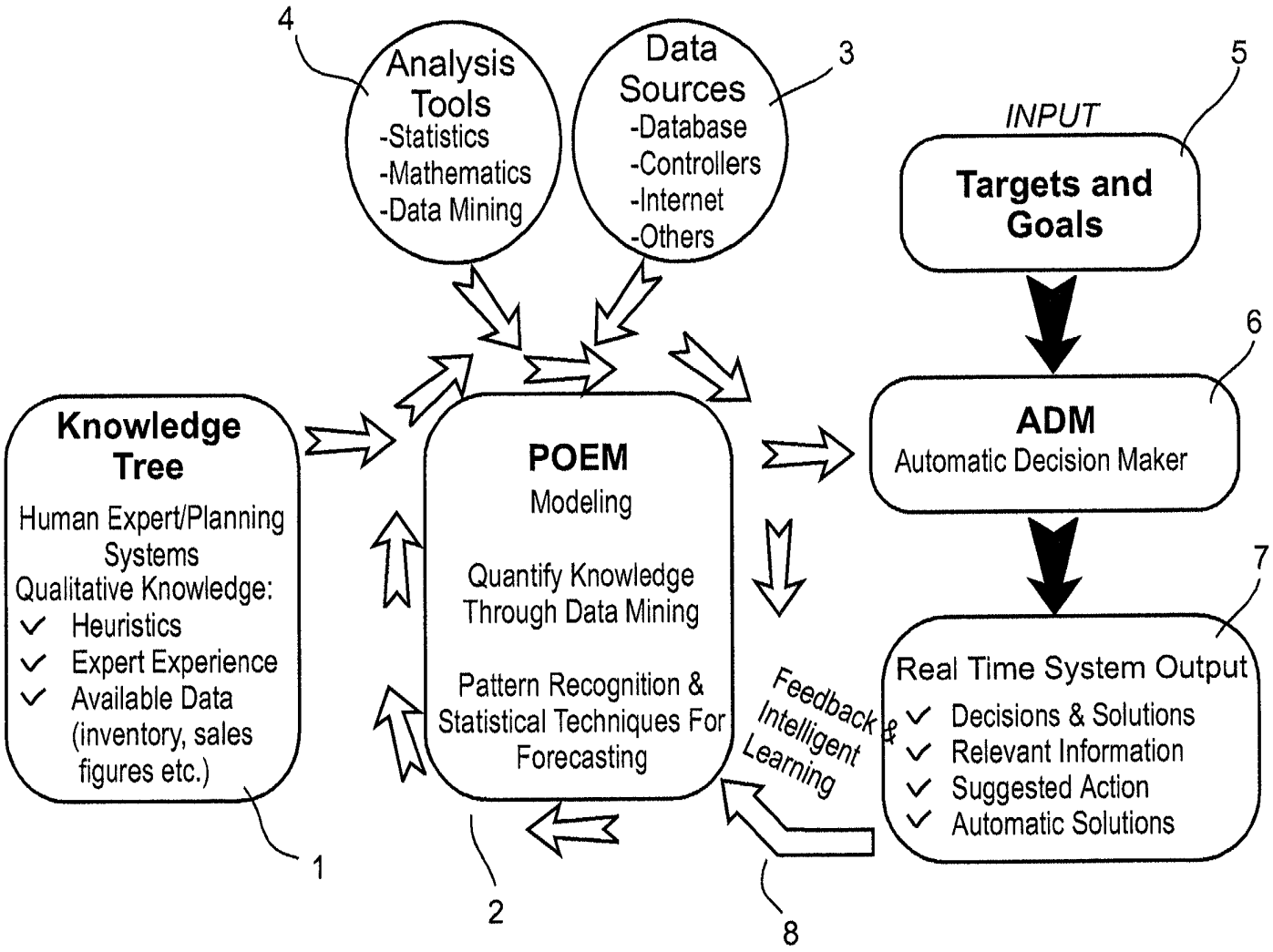

Fig. 1a

Patent Pending

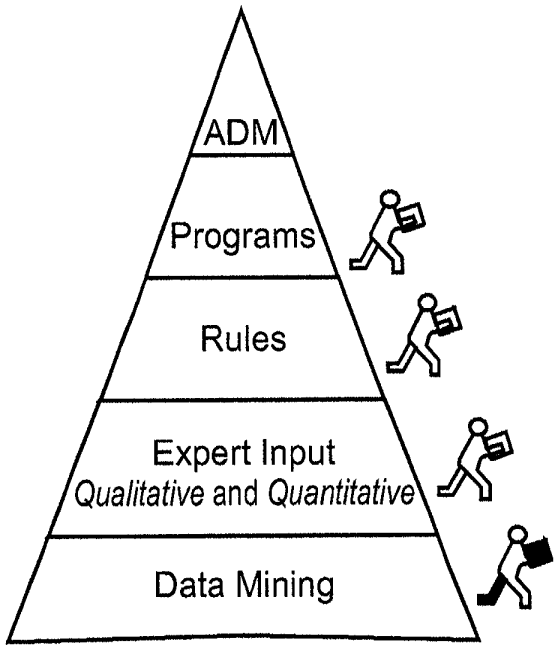

Fig. 1b (Prior Art)

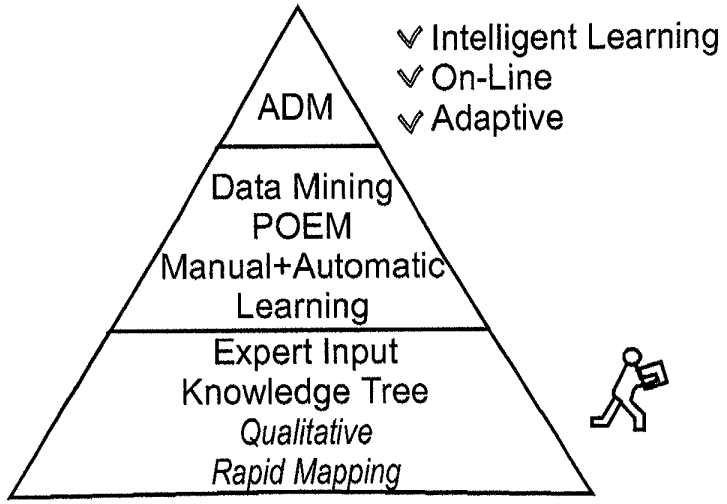

Fig. 1c

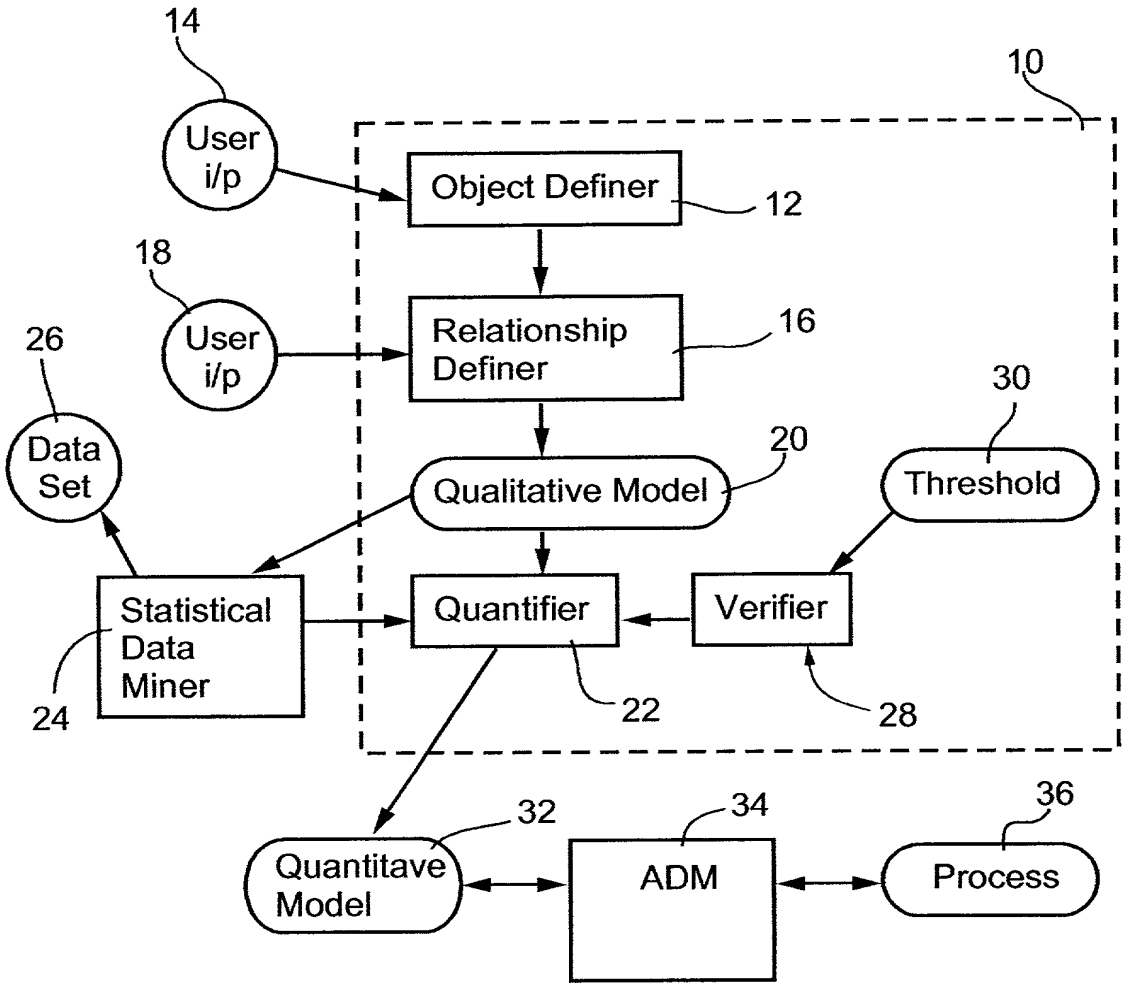
14
10
User i/p
Object Definer
12
18
User i/p
Relationship Definer
16
26
30
Data Set
20
Qualitative Model
Threshold
Statistical Data Miner
Quantifier
Verifier
24
22
28
32
34
36
Quantitave Model
ADM
Process

Fig. 2

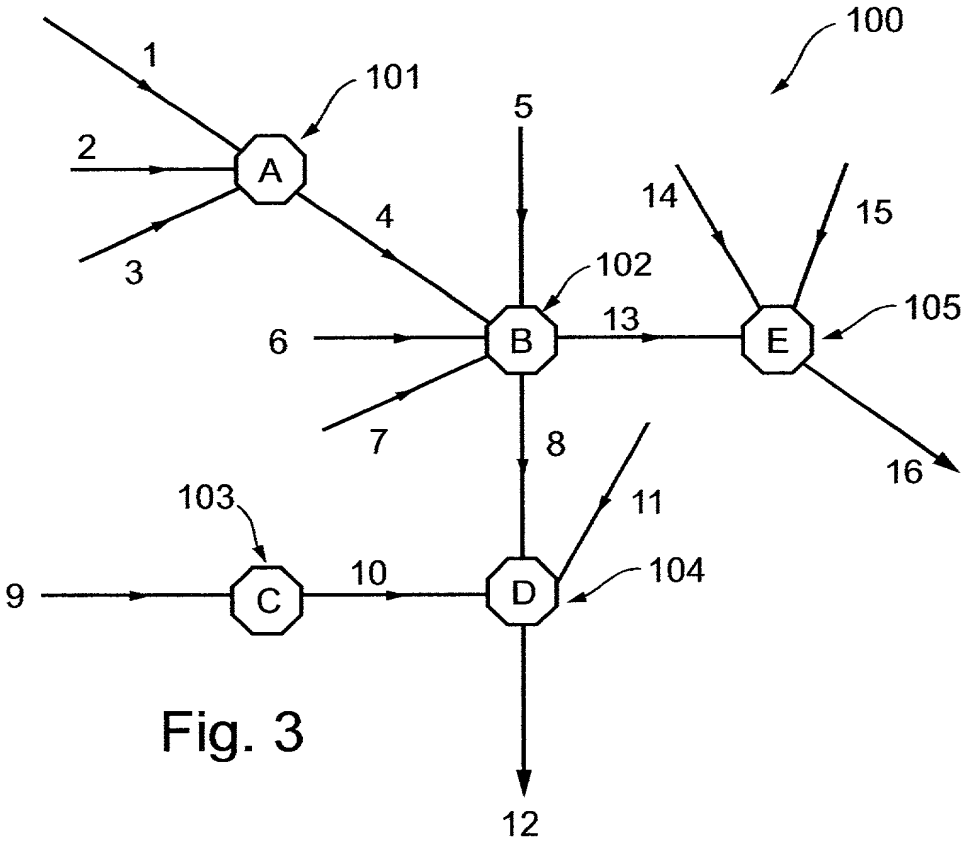

Fig. 3

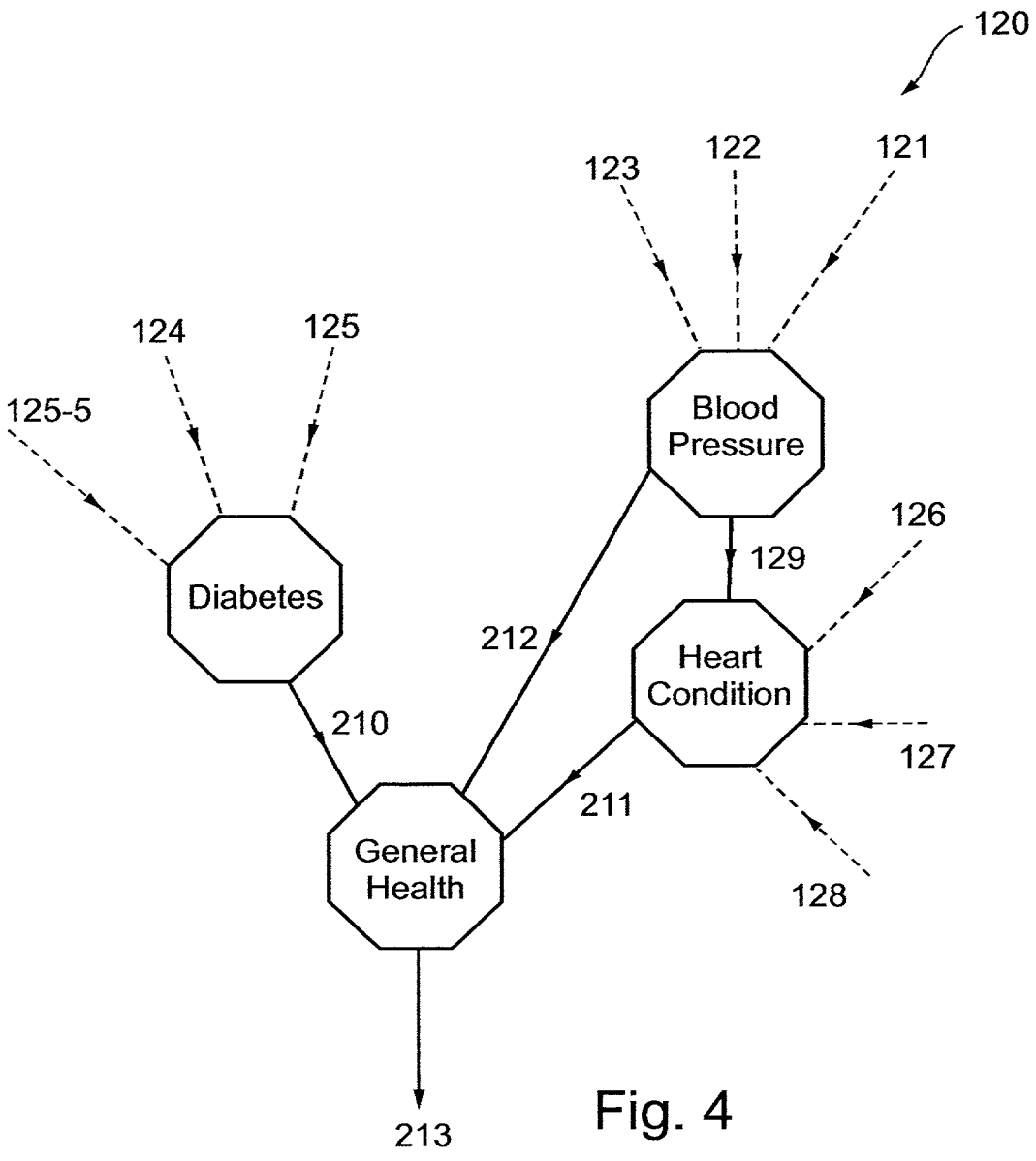
120
123
122
121
124
125
125-5
Blood Pressure
126
129
Diabetes
212
Heart Condition
210
127
211
General Health
128
213

Fig. 4

Target-Patent

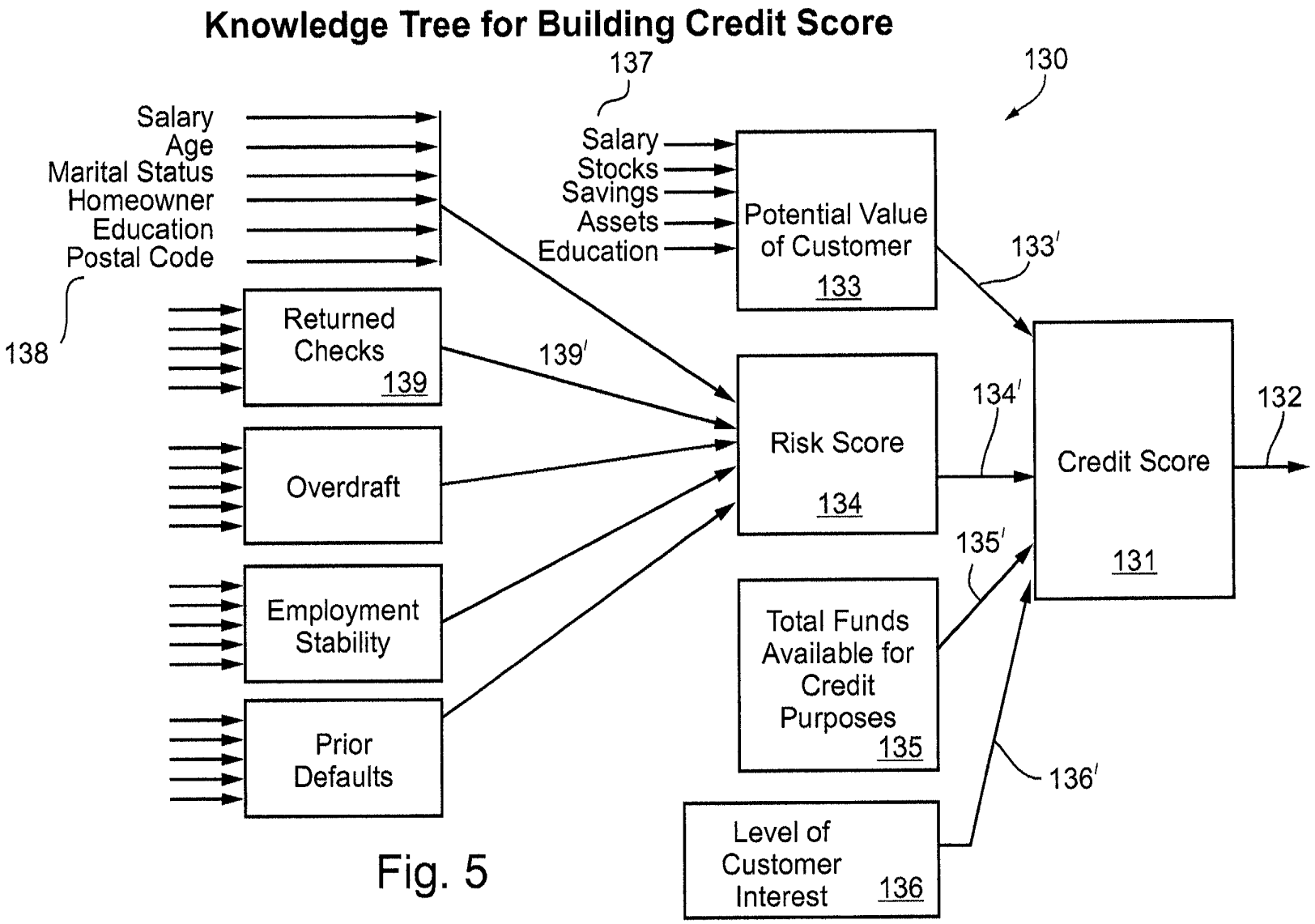

Fig. 5

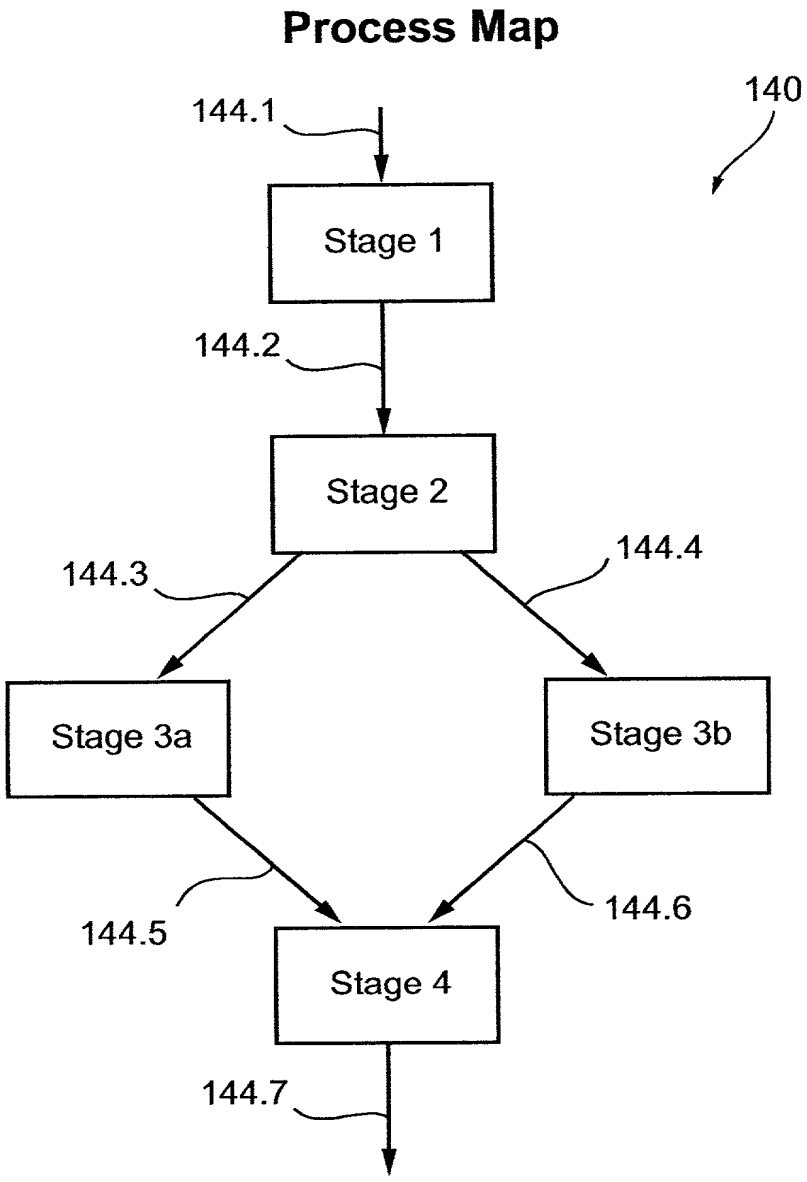
Process Map
140
144.1
Stage 1
144.2
Stage 2
144.3
144.4
Stage 3a
Stage 3b
144.5
144.6
Stage 4
144.7

Fig. 6a

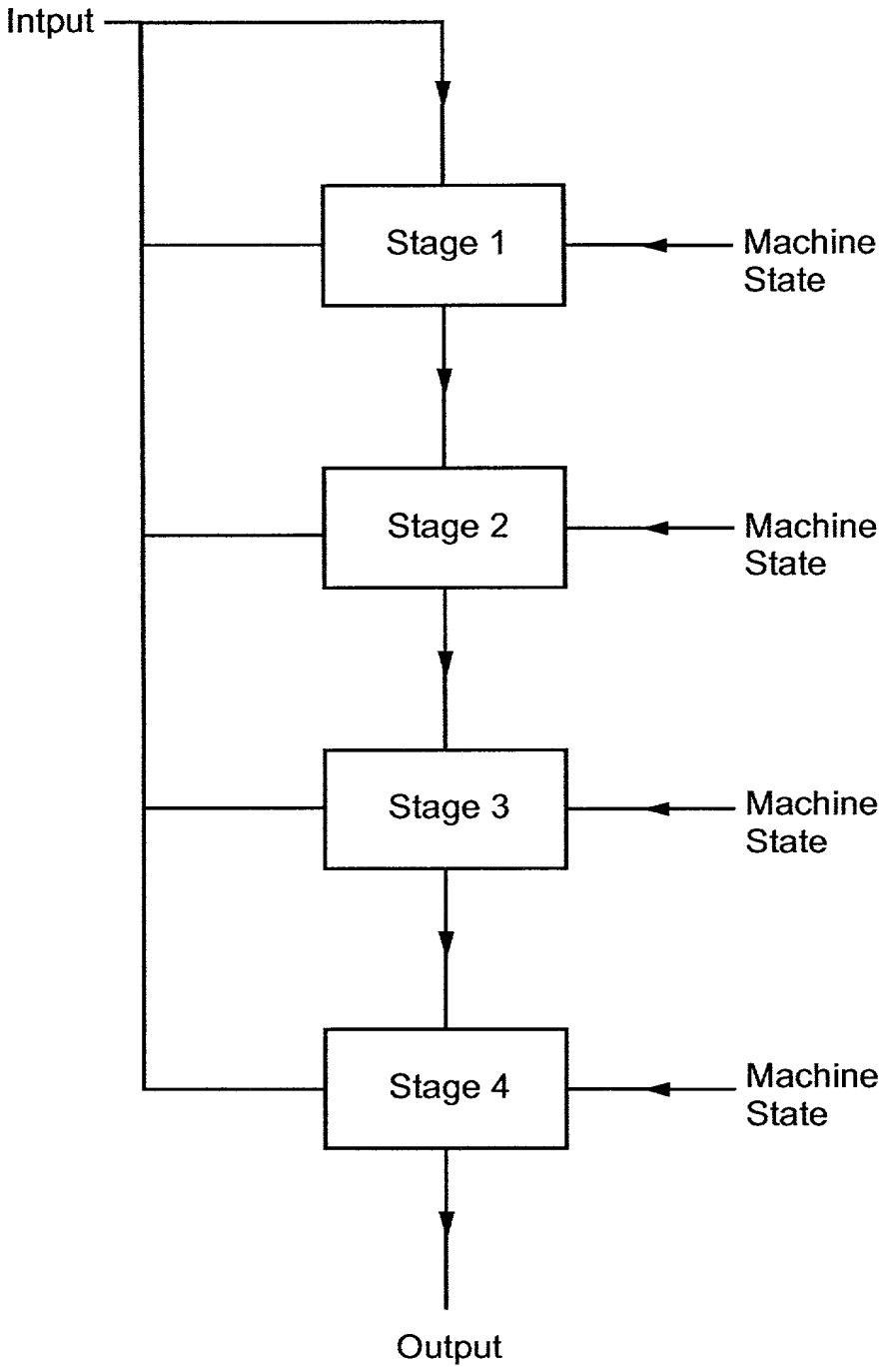
Intput
Stage 1
Machine State
Stage 2
Machine State
Stage 3
Machine State
Stage 4
Machine State
Output

Fig. 6b

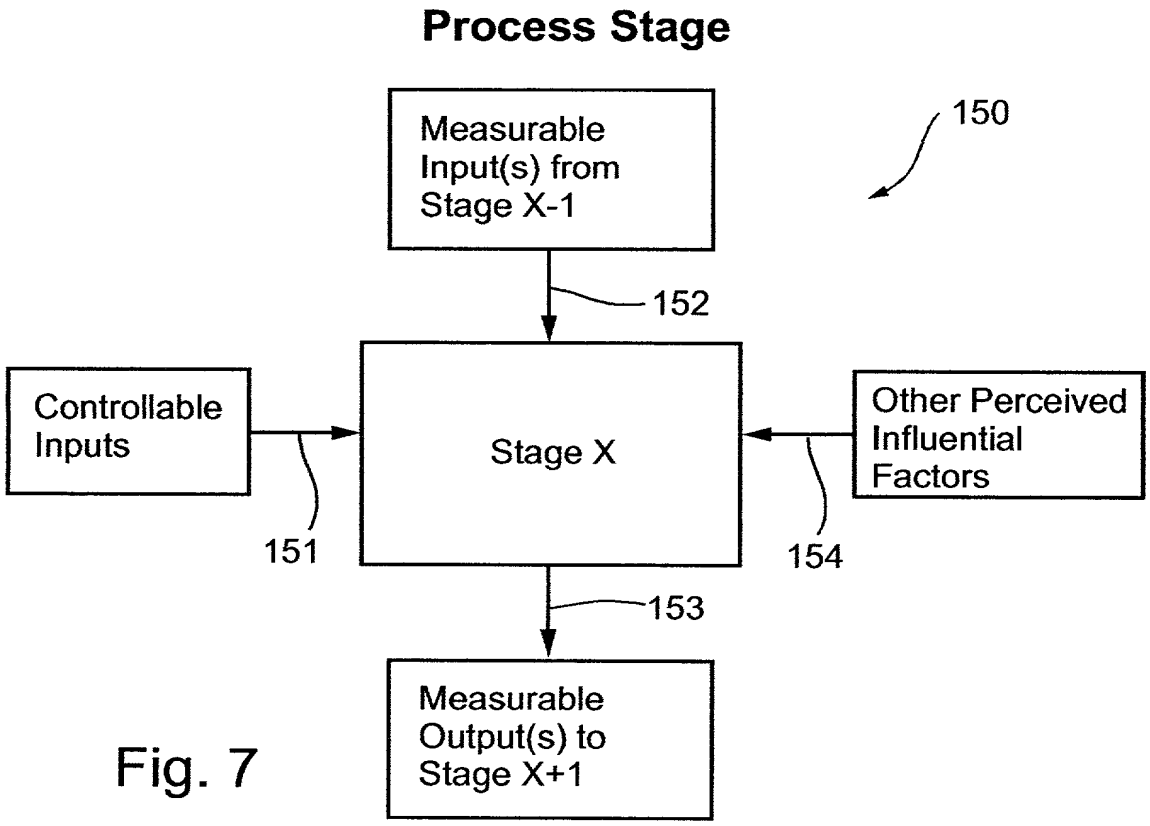
Process Stage
Measurable Input(s) from Stage X-1
150
152
Controllable Inputs
Stage X
Other Perceived Influential Factors
151
154
153
Measurable Output(s) to Stage X+1

Fig. 7

Process Map with Controllable Parameters

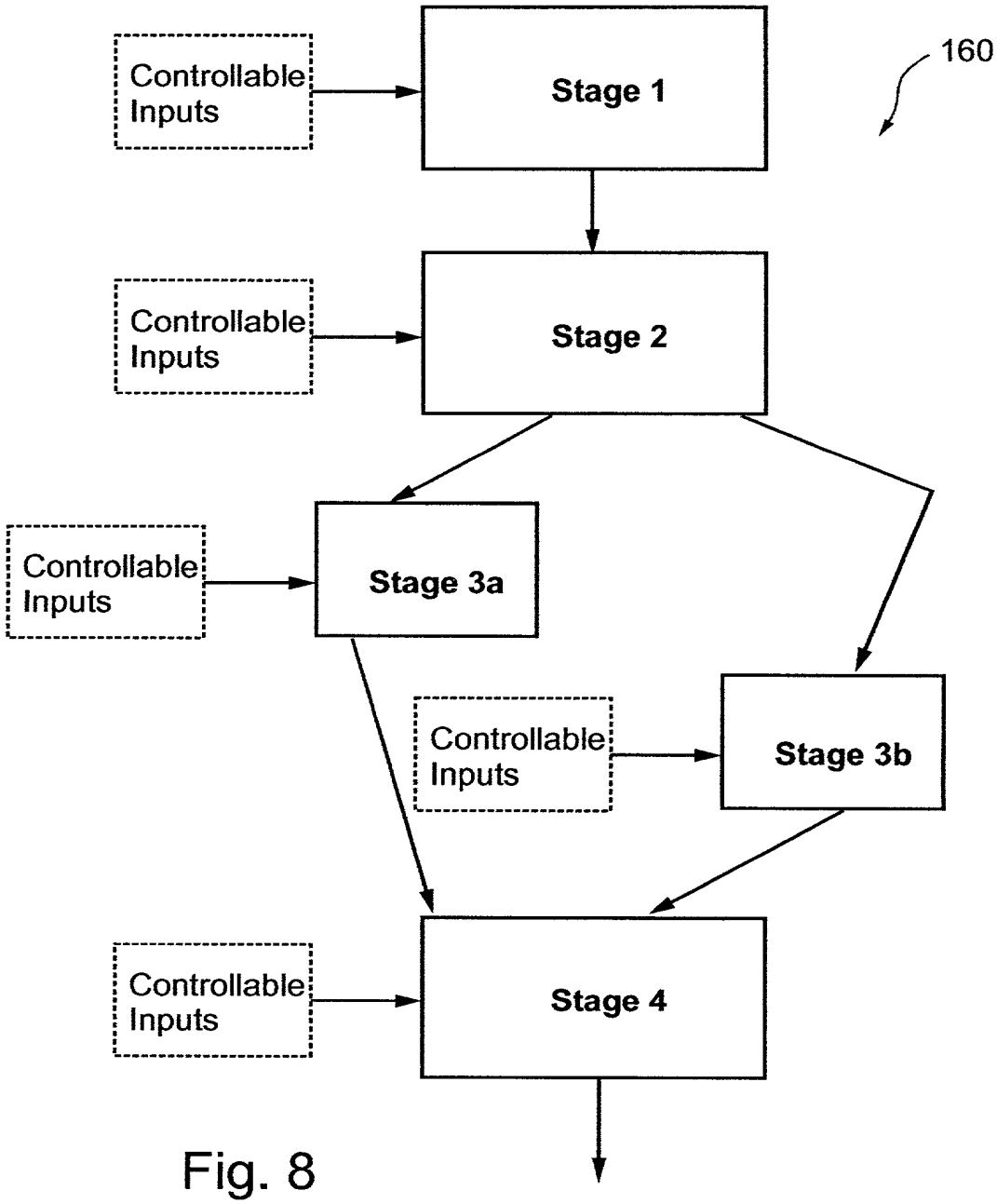

Fig. 8

Process Map with Interrelationship and Outside Influences

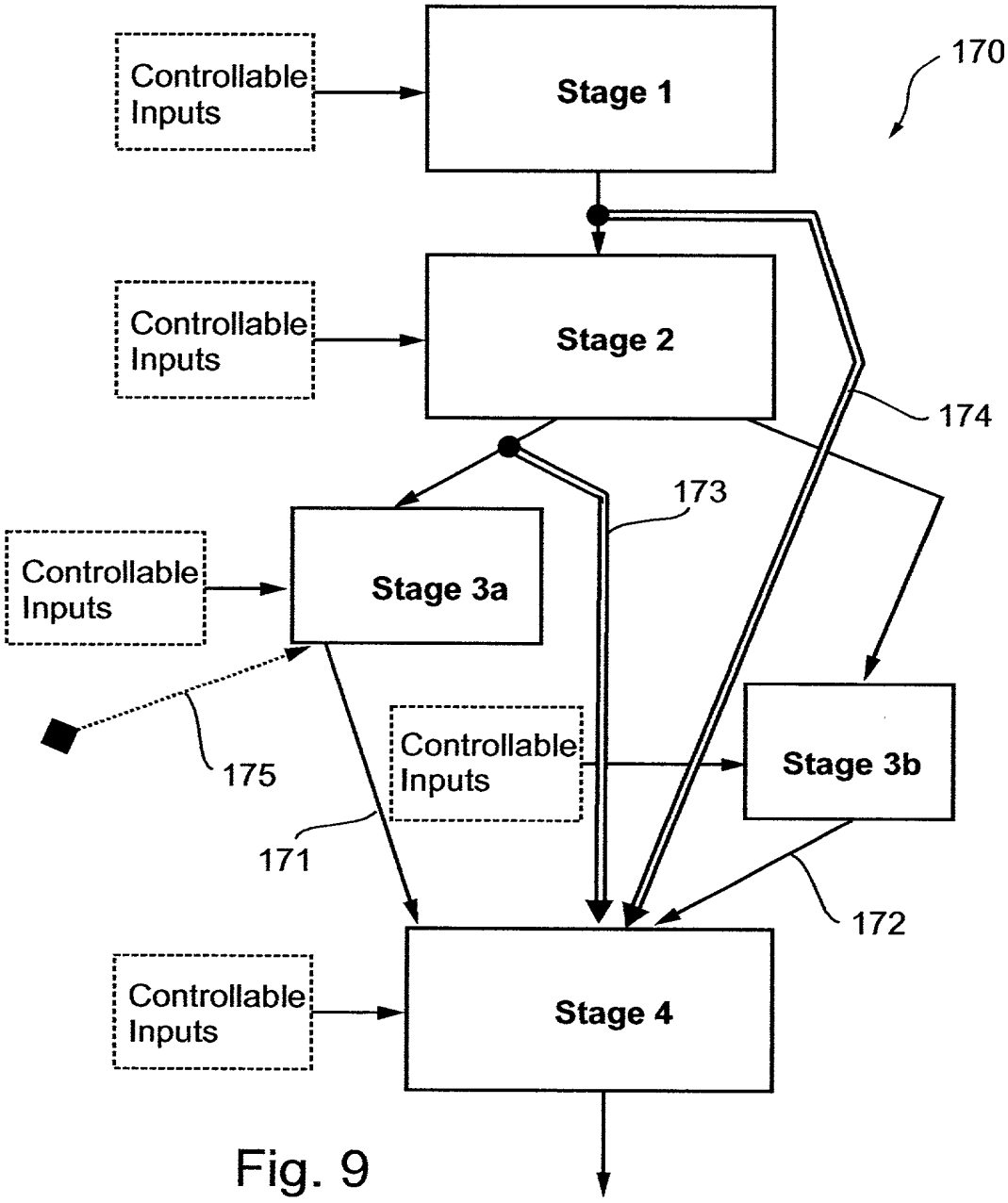

Fig. 9

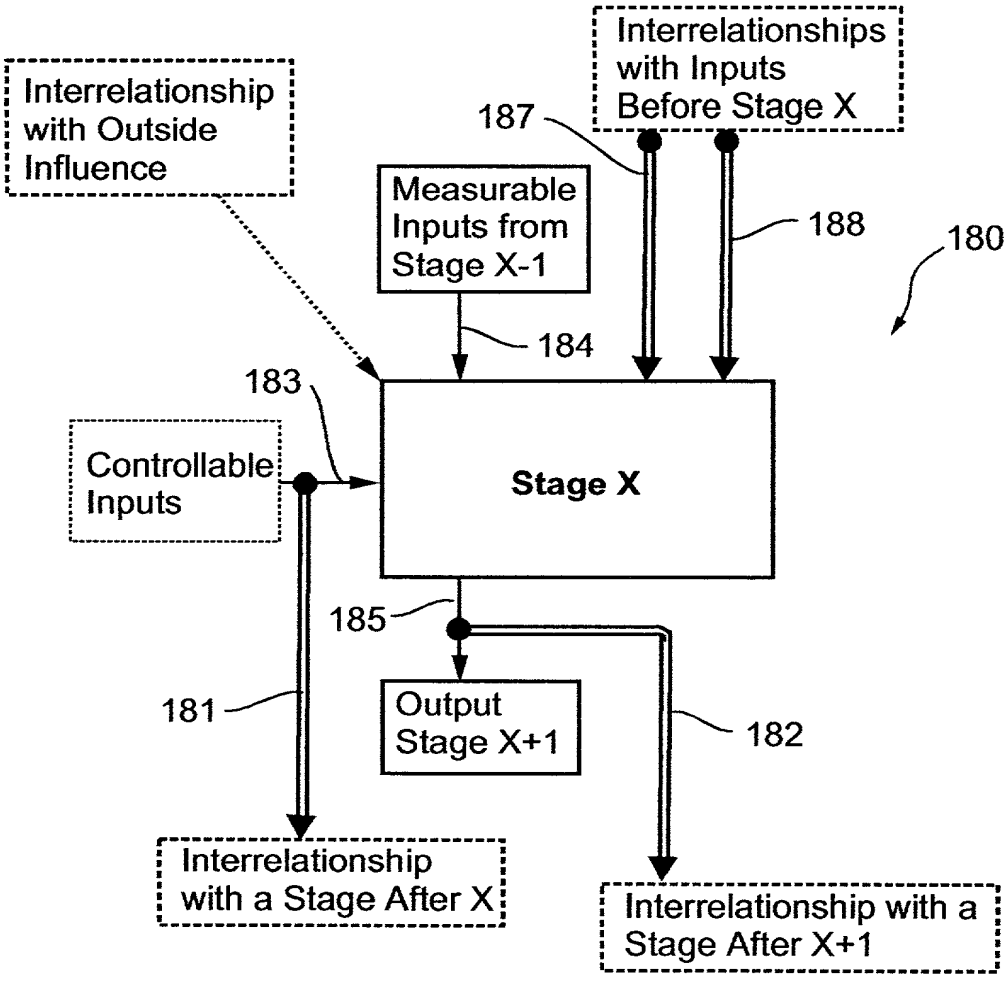
Interrelationship with Outside Influence
Interrelationships with Inputs Before Stage X
187
Measurable Inputs from Stage X-1
188
180
184
183
Controllable Inputs
Stage X
185
181
Output Stage X+1
182
Interrelationship with a Stage After X
Interrelationship with a Stage After X+1

Fig. 10

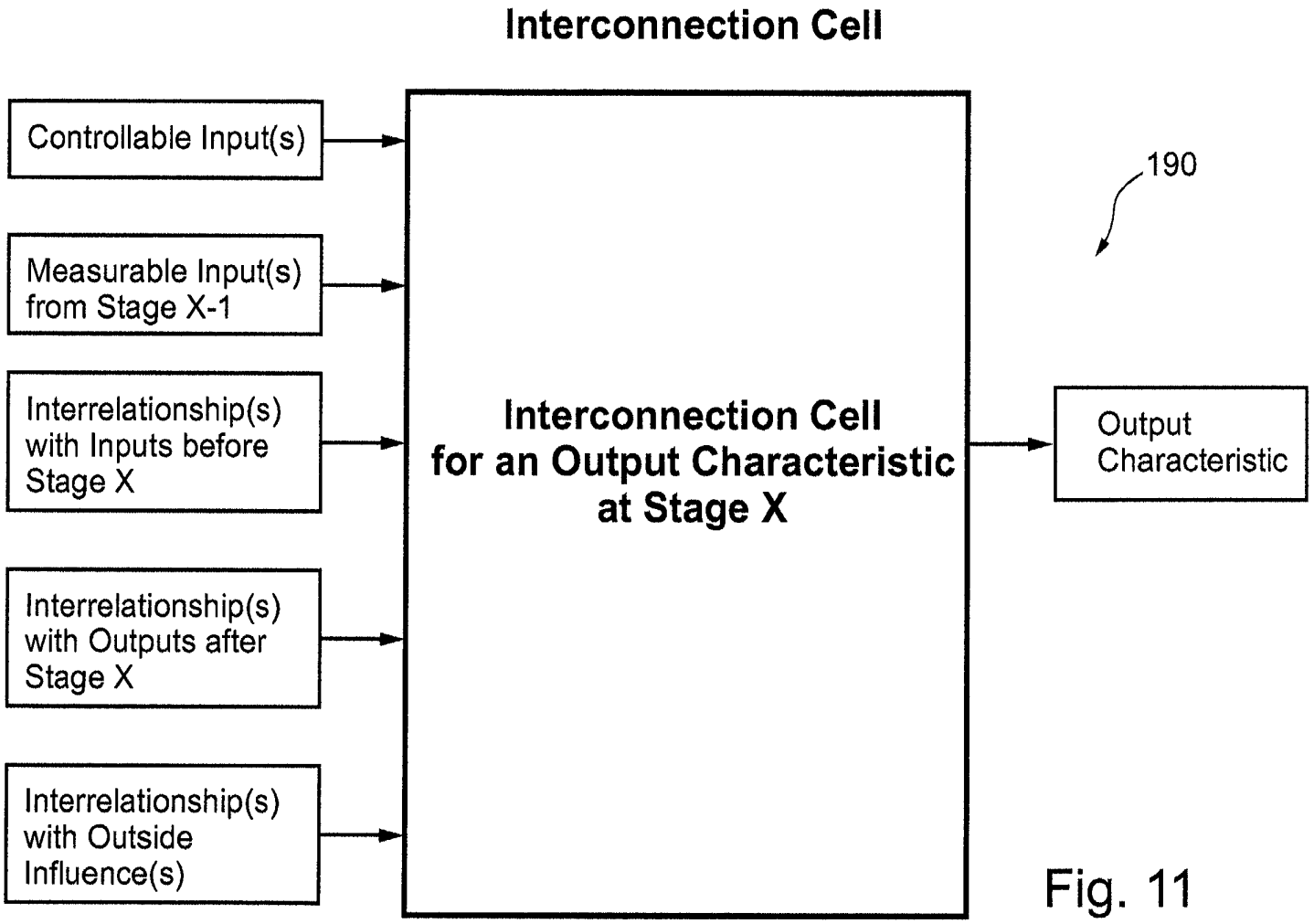
Interconnection Cell
Controllable Input(s)
Measurable Input(s) from Stage X-1
Interrelationship(s) with Inputs before Stage X
Interrelationship(s) with Outputs after Stage X
Interrelationship(s) with Outside Influence(s)
Interconnection Cell for an Output Characteristic at Stage X
190
Output Characteristic

Fig. 11

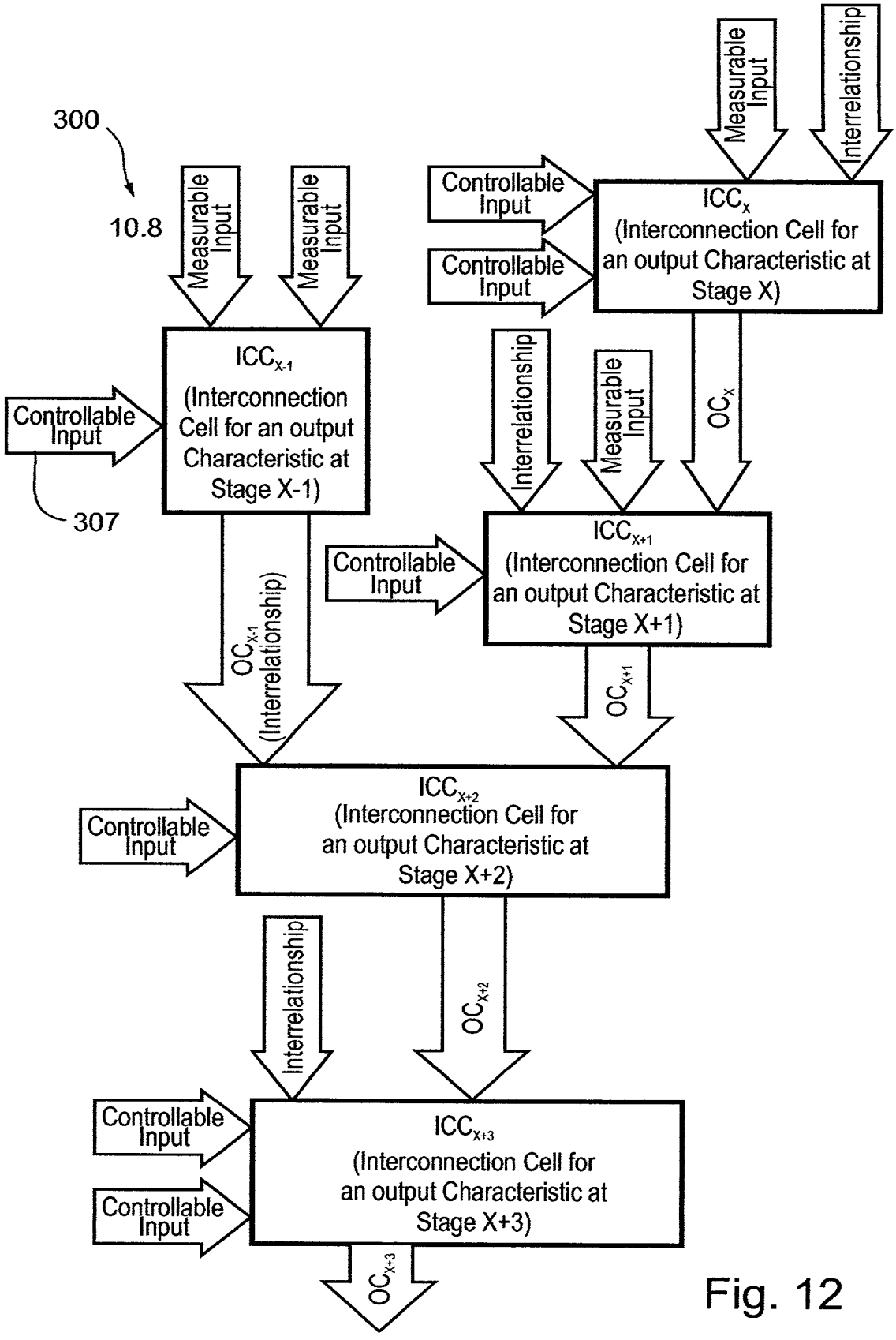
300
10.8
Measurable Input
Measurable Input
Controllable Input
307
ICC$_{X-1}$
(Interconnection Cell for an output Characteristic at Stage X-1)
OC$_{X-1}$ (Interrelationship)
Measurable Input
Interrelationship
Controllable Input
Controllable Input
ICC$_X$
(Interconnection Cell for an output Characteristic at Stage X)
OC$_X$
Interrelationship
Measurable Input
Controllable Input
ICC$_{X+1}$
(Interconnection Cell for an output Characteristic at Stage X+1)
OC$_{X+1}$
Controllable Input
ICC$_{X+2}$
(Interconnection Cell for an output Characteristic at Stage X+2)
Interrelationship
OC$_{X+2}$
Controllable Input
Controllable Input
ICC$_{X+3}$
(Interconnection Cell for an output Characteristic at Stage X+3)
OC$_{X+3}$

Fig. 12

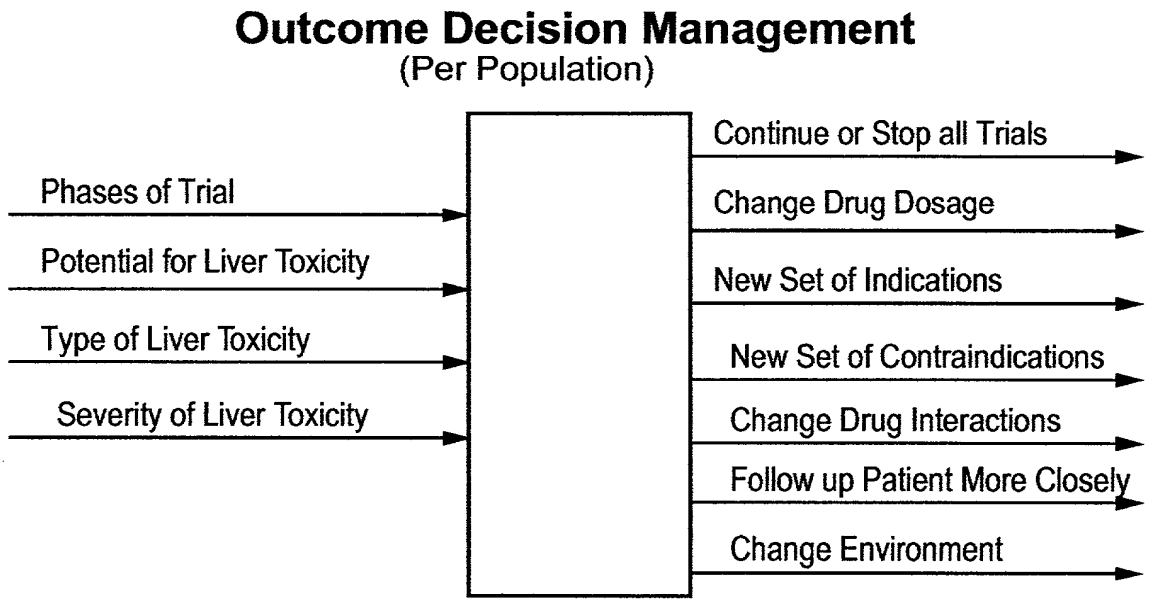
Outcome Decision Management
(Per Population)
Phases of Trial
Potential for Liver Toxicity
Type of Liver Toxicity
Severity of Liver Toxicity
Continue or Stop all Trials
Change Drug Dosage
New Set of Indications
New Set of Contraindications
Change Drug Interactions
Follow up Patient More Closely
Change Environment

Fig. 13

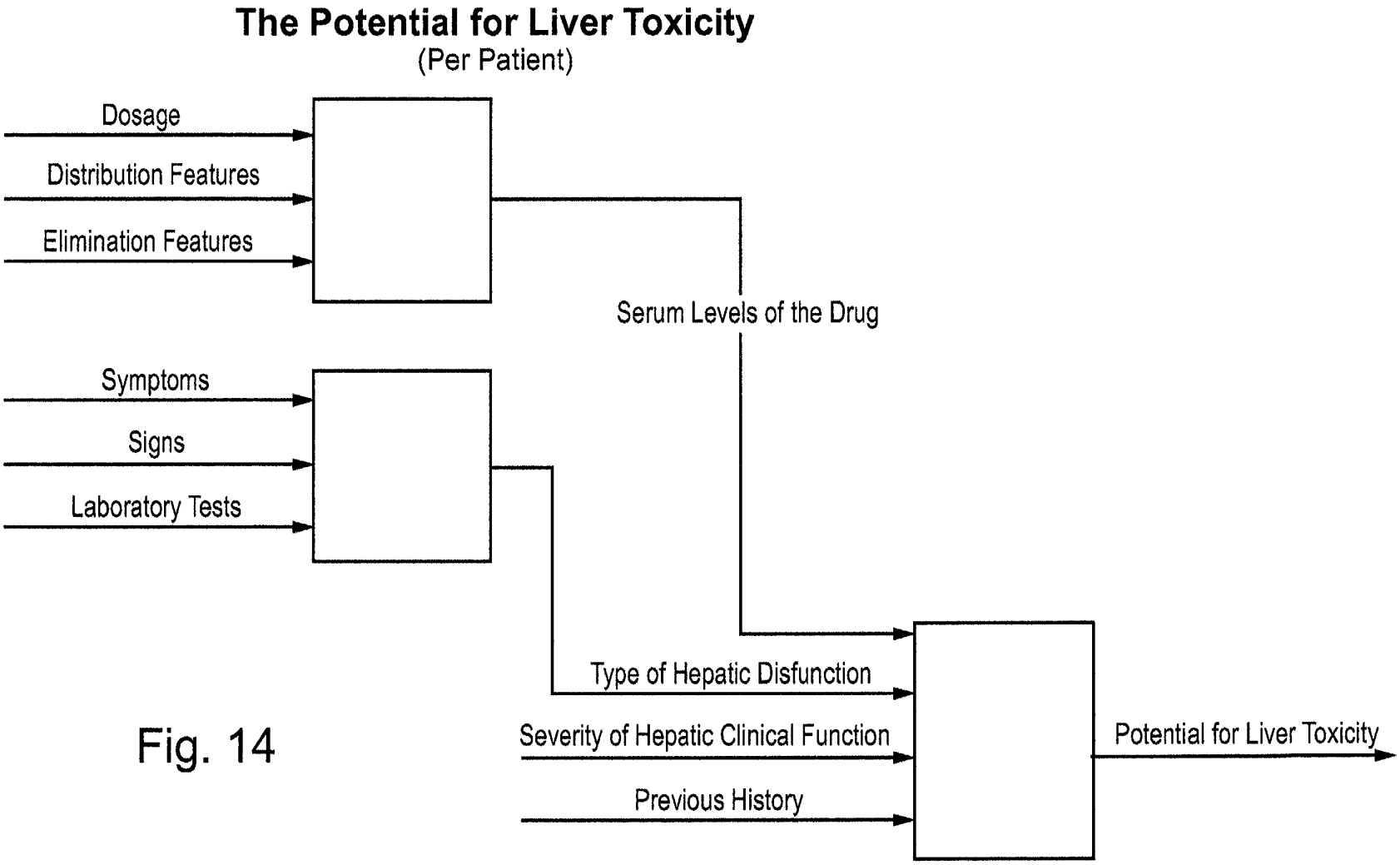
The Potential for Liver Toxicity
(Per Patient)
Dosage
Distribution Features
Elimination Features
Serum Levels of the Drug
Symptoms
Signs
Laboratory Tests
Type of Hepatic Disfunction
Severity of Hepatic Clinical Function
Previous History
Potential for Liver Toxicity

Fig. 14

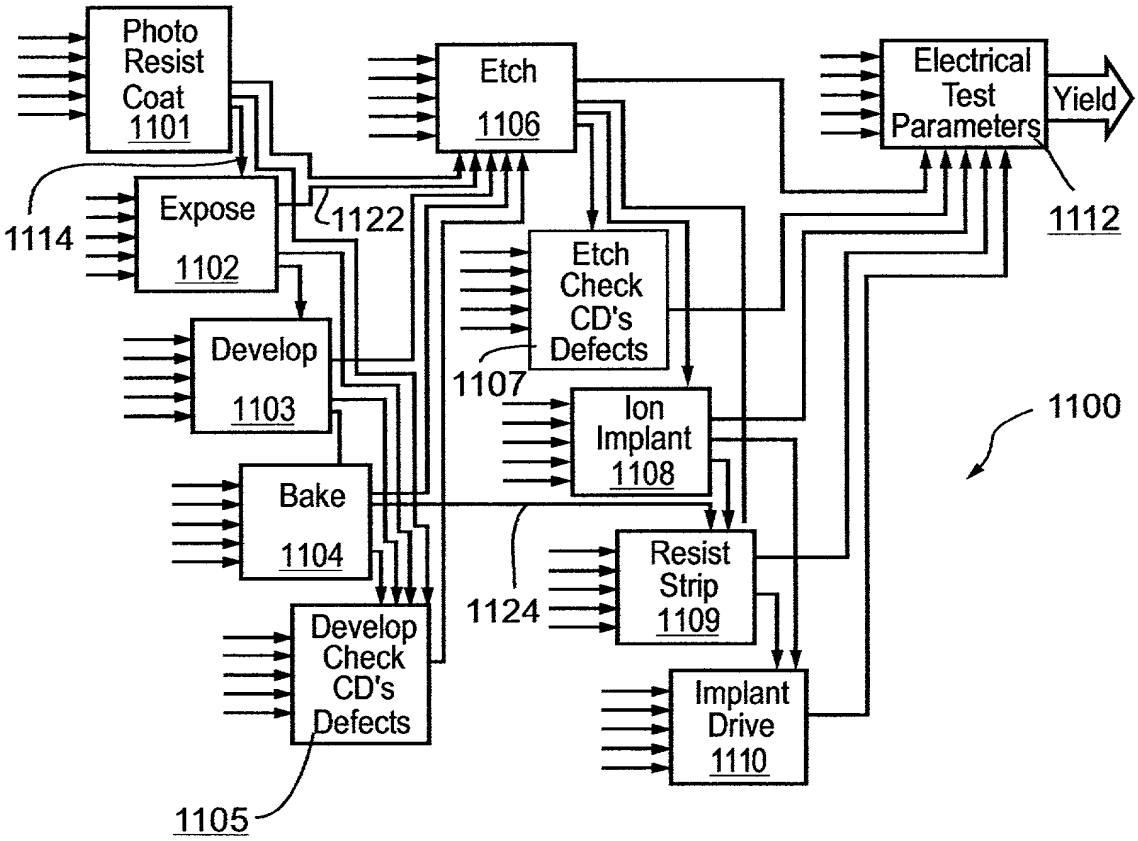
Photo Resist Coat 1101
Etch 1106
Electrical Test Parameters
Yield
1112
1114
Expose 1102
1122
Etch Check CD's Defects
1107
Develop 1103
Ion Implant 1108
1100
Bake 1104
Resist Strip 1109
1124
Develop Check CD's Defects
Implant Drive 1110
1105

Fig. 15